## (19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 30 June 2005 (30.06.2005)

**PCT** 

## (10) International Publication Number WO 2005/059172 A3

(51) International Patent Classification<sup>7</sup>: C12Q 1/68

(21) International Application Number:

PCT/EP2004/014170

(22) International Filing Date:

13 December 2004 (13.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

03090432.0	11 December 2003 (11.12.2003)	$\mathbf{EP}$
04090041.7	10 February 2004 (10.02.2004)	EP
04090127.4	1 April 2004 (01.04.2004)	EP
04013328.2	5 June 2004 (05.06.2004)	EP
04090380.9	30 September 2004 (30.09.2004)	EP
04027213.0	16 November 2004 (16.11.2004)	EP

(71) Applicant (for all designated States except US): EPIGE-NOMICS AG [DE/DE]; Kastanienallee 24, 10435 Berlin (DE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): FOEKENS, John [NL/NL]; Filosofentuin 35, NL-2908 XA Rotterdam (NL). HARBECK, Nadia [DE/DE]; Palnkamer Str. 49, 83624 Otterfing (DE). KÖNIG, Thomas [DE/DE]; Skalitzer Strasse 18, 10999 Berlin (DE). MAIER, Sabine [DE/DE]; Markelstr. 60, 12163 Berlin (DE). MARTENS, John [NL/NL]; Schiekade 121 h, NL-3033 BK Rotterdam (NL). MODEL, Fabian [DE/DE]; Debenzerstr. 73, 12683 Berlin (DE). NIMMRICH, Inko [DE/DE]; Heinz-Kapelle-Str. 9, 10407 Berlin (DE). RUJAN, Tamas [DE/DE]; Venetastr. 7, 13189 Berlin (DE). SCHMITT, Manfred [DE/DE]; Hohenaschauer Str. 10, 81669 München (DE). LESCHE, Ralf [DE/DE]; Platanenstrasse 89A, 13156 Berlin (DE). DIETRICH, Dimo [DE/DE]; Katharinenstr. 27, 10711 Berlin (DE). MÜLLER, Volkmar [DE/DE];

Department of Genecology, University Medical Cente, r, Hamburg-Eppendorf, Martinistrasse 52, 20246 Hamburg (DE). **KLUTH, Antje** [DE/DE]; Hufelandstr. 37, 10407 Berlin (DE). **SCHWOPE, Ina** [DE/DE]; Islaendische Str. 16, 10439 Berlin (DE). **HARTMANN, Oliver** [DE/DE]; Sredzkistrasse 38, 10435 Berlin (DE). **ADORJAN, Peter** [HU/DE]; Dunckerstr. 4, 10437 Berlin (DE). **MARX, Almuth** [DE/DE]; Viatisstrasse 88, 90480 Nürnberg (DE).

- (74) Agent: KRAUSS, Jan, B.; Boehmert & Boehmert, Pettenkoferstrasse 20-22, 80336 München (DE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## **Published:**

— with international search report

(88) Date of publication of the international search report: 8 December 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD AND NUCLEIC ACIDS FOR THE IMPROVED TREATMENT OF BREAST CELL PROLIFERATIVE DISORDERS

(57) Abstract: The present invention relates to modified and genomic sequences, to oligonucleotides and/or PNA-oligomers for detecting the cytosine methylation state of genomic DNA, as well as to a method for predicting the disease free survival and/or response of a subject with a cell proliferative disorder of the breast tissues, to endocrine treatment.

